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OUT52194

1 NOV 1963

Declassification Review by NGA/DoD

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103 OCT 1 02 40Z

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1. CAMERA 112-A WAS USED IN MISSION 3756 FLOWN ON 19 OCTOBER 1963; PROCESSING WAS ACCOMPLISHED BY EASTMAN KODAK.

HFS

CJS

GFC

BNC

AGE

Grace (File)

2. ORIGINAL NEGATIVE:

A. THE EXPOSURE IS CORRECT DURING MOST OF THE MISSION, BUT RANGES FROM INADEQUATE DURING THE BEGINNING TO EXCESSIVE NEAR THE END. IN ALL CASES, MOST DETAIL IS LOST IN THE SHADOWS, AND TOTALLY LOST DURING THE PORTION OF INADEQUATE EXPOSURE.

B. THE RESOLUTION IS SERIOUSLY DEGRADED WHEN THE VEHICLE ATTITUDE CHANGES. EXAMPLES OF THIS CAN BE FOUND ON FRAMES 8 AND 39, WHERE THE ENTIRE FORMAT IS BLURRED WHILE THE VEHICLE APPEARS TO BE IN A BANK. DURING THE FIRST HALF OF THE MISSION, THERE IS AN OUT OF FOCUS AREA ON THE STARBOARD END OF THE FRAME ADJACENT TO THE TITLED EDGE. THIS FUZZY AREA CHANGES SHAPE AND POSITION, BUT IN GENERAL REMAINS NEAR THE INBOARD FIDUCIAL. IT CAN BE FOUND ON EVERY FRAME DURING THE FIRST HALF OF THE MISSION, WHERE WEATHER PERMITS AND THERE IS CLOUDS BELOW; HOWEVER, FRAME NUMBER 28 IS WORTH OF NOTE, WHERE THE FUZZINESS EXTENDS 5.0" INTO THE FORMAT. ON MOST FRAMES OF THE MISSIONS, HOWEVER, THE RESOLUTION IS VERY GOOD.

C. TRANSVERSE BARS OF VARYING DENSITY (BANDING) ARE PRESENT AT THE TAKE-UP SIDE OF EVERY FRAME, BUT ARE MORE NOTICABLE WHERE THE FILM IS LESS DENSE, AS OVER WATER. THEY AVERAGE ABOUT 4.0"

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downgrading and
declassification

BUT IN SOME CASES EXTEND AS MUCH AS 6.0" INTO THE FORMAT FROM THE TAKE UP EDGE.

D. BOTH EDGES OF THE NEGATIVE SHOW EDGE FOG, WHICH IS HEAVY AT THE BEGINNING AND BECOMES LESS NOTICABLE AT THE END OF THE MISSION.

E. RAIL SCRATCHES ARE EVIDENT THROUGHOUT AND THERE IS A REPETITIVE SCRATCH 0.2" FROM THE TAKEUP EDGE AND LOCATED 0.1" FROM THE TITLED EDGE.

F. THE UNTITLED EDGE OF THE FRAME IS NOT WELL DEFINED AND IMAGERY IMMEDIATELY ADJACENT TO THE RAIL APPEARS VIGNETTED.

G. DIAGONAL PLUS DENSITY STREAKS CAUSED BY A LIGHT LEAK ARE LOCATED ON FRAMES 002, 2367 AND 2468.

H. THERE IS A MINUS DENSITY BAND 0.2" WIDE ALONG THE TITLED EDGE OF THE FILM STARTING ABOUT FRAME 1000 AND GOING THROUGH THE REST OF THE MISSION. BEGINNING AT FRAME 800, TWO MINUS DENSITY STREAKS 0.9" AND 1.23" RESPECTIVELY FROM THE TITLED EDGE, RUN INTERMITTENTLY THROUGH THE REMAINDER OF THE MISSION.

I. THERE ARE MINOR EMULSION SCRATCHES THROUGHOUT.

3. POSITIVE:

A. THE PI SUITABILITY IS VERY GOOD, EXCEPT IN THE FUZZY AREAS NOTED ABOVE, AND WHEN THE EXPOSURE WAS INCORRECT. THE OVERLAP AVERAGED 55-60 PERCENT BUT STEREO CAPABILITY IS AT A MINIMUM DUE TO INSUFFICIENT ANGULAR DISPLACEMENT.

B. CLOUDS COVERED 50 PERCENT OF THE PHOTOGRAPHY.

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END OF MESSAGE